

# RECREATIONAL WATER

# MATERIAL SAFETY DATA SHEET

Product Name:	POOL TIME CALCIUM HARDNESS INCREASER	Date Prepared:	09/02/94
Product Number:	RPTM23434	Supersedes:	09/02/94

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
Product Identifier:	RPTM23434		
Product Use:	Calcium Hardness Increaser		
Product Description:	POOL TIME CALCIUM HARDNESS INCREASER		
Chemical Family:	Inorganic Salt		
Technical Name:	Calcium Chloride		
Manufacturer/Supplier:		Emergency Telephone Numbers:	
RECREATIONAL WATER P.O. BOX 887 SCOTSDALE, GEORGIA 30079  800-949-SWIM (7946)		CHEMTREC (800)424-9300 Health (303)623-5716	
		Prepared: REGULATORY AFFAIRS	

SECTION 2 - HAZARDOUS COMPONENTS		
COMPONENT	WT%	CAS Number
Calcium Chloride	80.0 %	10043-52-4
Potassium Chloride	5.0 %	7447-40-7
Strontium Chloride	1.0 %	10476-85-4

SECTION 3 - HAZARDS IDENTIFICATION
<p><b>EMERGENCY OVERVIEW:</b> CAUTION: Irritating to eyes and skin. Avoid contact with eyes, skin or clothing. Harmful if swallowed. Avoid breathing dust or vapors. Wear goggles or safety glasses and rubber gloves when handling this product. Remove and wash contaminated clothing. THIS CHEMICAL UPON CONTACT WITH WATER OR MOISTURE WILL FORM AN ACID SOLUTION AND CAUSE BURNS TO EYES AND SKIN.</p> <p><b>EFFECTS OF OVEREXPOSURE - EYE CONTACT:</b> CAUTION: Causes eye irritation. Avoid contact with eyes.</p> <p><b>EFFECTS OF OVEREXPOSURE - SKIN CONTACT:</b> CAUTION: Causes skin irritation. Avoid contact with skin.</p> <p><b>EFFECTS OF OVEREXPOSURE - INHALATION:</b> Irritating to nose and throat. Avoid breathing dust or vapors.</p> <p><b>EFFECTS OF OVEREXPOSURE - INGESTION:</b> Harmful if swallowed.</p>

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**SECTION 3 - HAZARDS IDENTIFICATION - continued**

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: There are no known chronic hazards.  
PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation, Ingestion, Eye Contact

**SECTION 4 - FIRST AID MEASURES**

FIRST AID - EYE CONTACT: If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.  
FIRST AID - SKIN CONTACT: If contact with skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.  
FIRST AID - INHALATION: If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.  
FIRST AID - INGESTION: If swallowed: Drink large amounts of water. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center immediately.

**SECTION 5 - FIRE FIGHTING MEASURES**

Flashpoint and Method:	None		
Flammable Limits:	LEL: N.A.	UEL: N.A.	
Autoignition Temperature:			

EXTINGUISHING MEDIA: Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: There are no unusual fire and explosion hazards known.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED: Utilizing appropriate protective clothing and safety equipment, contain spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place in clean dry plastic containers for disposal. Dispose of according to local, state, and federal regulations.

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**SECTION 7 - HANDLING AND STORAGE**

**HANDLING:** Mix only with water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with other chemicals may start a chemical reaction generating heat, hazardous gases, fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water, if necessary.

**STORAGE:** Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not add any other product to container. Never return unused product to container; dispose of product in accordance with local, state, or federal regulations.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Component	Source	Value
Calcium Chloride	OSHA TWA ACGIH TLV	Not Established. Not Established.
Potassium Chloride	OSHA TWA ACGIH TLV	Not Established Not Established
Strontium Chloride	OSHA TWA ACGIH TLV	Not Established Not Established

**ENGINEERING CONTROLS:** General room ventilation plus local exhaust should be used to maintain exposure below TLV.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SKIN PROTECTION:** Wear rubber gloves when handling this product. Avoid contact with skin.

**EYE PROTECTION:** Wear goggles or safety glasses with side shields when handling this product.

**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

**HYGIENIC PRACTICES:** Remove and wash contaminated clothing before reuse.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Not Applicable
Specific Gravity:	2.0
Solubility:	74g/100g Water
pH:	4.0 - 8.0
Melting Point:	347 F
Boiling Point:	Not Applicable.
Viscosity:	Not Applicable.
Vapor Density (Air = 1):	Is heavier than air
Evaporation Rate (n-Butyl Acetate = 1):	Is slower than Butyl Acetate
Odor:	Odorless
Appearance:	White
Physical State:	Solid
Partition Coefficient (n-octanol/water):	Not Available.

**SECTION 10 - STABILITY AND REACTIVITY**

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal conditions.

**CONDITIONS TO AVOID:** Contamination.

**INCOMPATIBILITY:** Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material. Ammonia, urea, or similar nitrogen containing compounds. Inorganic reducing compounds. Other swimming pool/spa chemicals in their concentrated forms.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Vapors/fumes of organic/inorganic materials plus oxides of carbon may be emitted.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** This product is not a mutagen or teratogen. This product is not listed as a carcinogen by EPA, NTP, or IARC. Toxicological information indicates this product may be irritating to skin and eyes.

**SECTION 12 - ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to local, state and federal regulations.

**SECTION 14 - TRANSPORTATION INFORMATION****DOT:**

Proper Shipping Name: Not Regulated.  
Hazard Class:  
Identification Number:  
Packing Group:  
RQ:

**SECTION 15 - REGULATORY INFORMATION****FEDERAL:****OSHA (Occupational Safety and Health Act):**

Product is hazardous by definition of the Hazard Communication Standard.

**TSCA (Toxic Substance Control Act):**

This product or its components are listed on the TSCA Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

This product or its components are not subject to export notification.

**FIFRA (Federal Insecticide, Fungicide, Rodenticide Act):**

This product is not a registered pesticide.

**CERCLA (Comprehensive Response, Compensation and Liability Act):**

This product or its components are not listed.

**SARA (Superfund Amendments and Reauthorization Act):**

**SARA 313:** This product or its components are not listed.

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SECTION 16 - OTHER INFORMATION			
NFPA: Health: 2	Flammability: 0	Reactivity: 1	
HMIS: Health: 2	Flammability: 0	Reactivity: 1	Personal Protection: B
REVISION SUMMARY:			

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as arecommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.